Risk Assessment Form (3)

Required for projects using hazardous chemicals, activities or devices.
Must be completed before experimentation.

Student's Name Josh Lamb

Title of Project L-Ascorbic Acid-Analyzing Foods by Titration Phase 2: Quantifying the Effects of Heat and Cold on Vitamin C

To be completed by the Student Researcher in collaboration with Designated Supervisor/Qualified Scientist:
(All questions must be answered; additional page(s) may be attached.)

1. List/identify the hazardous chemicals, activities, devices or microorganisms that will be used.

   Tincture of Iodine (2%)

2. Identify and assess the risks involved.

   Tincture of Iodine can cause severe eye irritation, moderate skin irritation, gastrointestinal irritation and respiratory sensitization.
   Tincture of Iodine is a flammable liquid and vapor.

3. Describe the safety precautions and procedures that will be used to reduce the risks.

   Goggles and gloves will be used to prevent exposure to eyes and skin. Chemical will be used in a well ventilated area and will not be ingested. Chemical will be kept away from all heat sources, sparks and open flames. When not in use, chemical will be stored in a tightly closed container in a cool place, away from sunlight.

4. Describe the disposal procedures that will be used (when applicable).

   Any spills will be absorbed using cat litter which will be disposed of according to the school's hazardous waste protocol. Any unused chemical will also be disposed of according the the school's hazardous waste protocol.

5. List the source(s) of safety information.

   Flinn Chemical & Biological Catalog Reference Manual (2004), page 101.

To be completed and signed by the Designated Supervisor (or Qualified Scientist, when applicable):
I agree with the risk assessment and safety precautions and procedures described above. I certify that I have reviewed the **Research Plan** and will provide direct supervision.

Don Lamb _____ _____
Designated Supervisor's Printed Name | Signature | Date of Review (must be prior to experimentation.)

Science Teacher; Denver Middle School — don.lamb@gmail.com
Position & Institution | Phone or email contact information

BS, Chemistry Education; 10 years as chemistry teacher
Experience/Training as relates to the student's area of research